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NGUYEN, RACHEL L., LAI-WA TAM AND PAUL A. LEFEBVRE, The *LF1* gene of *Chlamydomonas reinhardtii* encodes a novel protein required for flagellar length control 1415–1424

NIU, TIANHUA, ADAM A. DING, REINHOLD KREUTZ AND KLAUS LINDPAINTNER, An expectation-maximization–likelihood-ratio test for handling missing data: Application in experimental crosses 1021–1031

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OMETTO, LINO, WOLFGANG STEPHAN AND DAVID DE LORENZO, Insertion/deletion and nucleotide polymorphism data reveal constraints in *Drosophila melanogaster* introns and intergenic regions 1521–1527

ORR, H. ALLEN, AND SHANNON IRVING, Segregation distortion in hybrids between the Bogota and USA subspecies of *Drosophila pseudoobscura* 671–682

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PENG, SHU-FEN, YAO-PIN LIN AND BOR-YAW LIN, Characterization of AFLP sequences from regions of maize B chromosome defined by 12 B-10L translocations 375–388

PETTERSSON, MATS E., DAN I. ANDERSSON, JOHN R. ROTH AND OTTO G. BERG, The amplification model for adaptive mutation: Simulations and analysis 1105–1115

PILAURI, VEPKHIA, MARIA BEWLEY, CUONG DIEP AND JAMES HOPPER, Gal80 dimerization and the yeast *GAL* gene switch 1903–1914

PINEDA-KRCH, MARIO, AND ROSEMARY J. REDFIELD, Persistence and loss of meiotic recombination hotspots 2319–2333

POLISH, JEFFREY A., JEONG-HO KIM AND MARK JOHNSTON, How the Rgt1 transcription factor of *Saccharomyces cerevisiae* is regulated by glucose 583–594

PRASAD, M. DHARMA, M. MUTHULAKSHMI, M. MADHU, SUNIL ARCHAK, K. MITA AND J. NAGARAJU, Survey and analysis of microsatellites in the silkworm, *Bombyx mori*: Frequency, distribution, mutations, marker potential and their conservation in heterologous species 197–214

RAITHATHA, SHEETAL A., AND DAVID T. STUART, Meiosis-specific regulation of the *Saccharomyces cerevisiae* S-phase cyclin *CLB5* is dependent on MluI cell cycle box (MCB) elements in its promoter but is independent of MCB-binding factor activity 1329–1342

REYNOLDS, NICOLE K., MICHAEL A. SCHADE AND KENNETH G. MILLER, Convergent, RIC-8-dependent Gα signaling pathways in the *Caenorhabditis elegans* synaptic signaling network 651–670

ROMEIJN, RON J., MARCIN M. GORSKI, MARTIJN A. VAN SCHIE, JASPRINA N. NOORDERMEER, LEON H. MULLENDERS, WOUTER FERRO AND ALBERT PASTINK, Lig4 and Rad54 are required for repair of DNA double-strand breaks induced by *P*-element excision in Drosophila 795–806

RUAN, HAI-BIN, NIAN ZHANG AND XIANG GAO, Identification of a novel point mutation of mouse proto-oncogene *c-kit* through *N*-ethyl-*N*-nitrosourea mutagenesis 819–831

SANDLER, STEVEN J., Requirements for replication restart proteins during constitutive stable DNA replication in *Escherichia coli* K-12 1799–1806

SANO, AKINORI, AND HIDENORI TACHIDA, Gene genealogy and properties of test statistics of neutrality under population growth 1687–1697

SANTIAGO, ENRIQUE, AND ARMANDO CABALLERO, Variation after a selective sweep in a subdivided population 475–483

SANYAL, S., C. CONSOULAS, H. KUROMI, A. BASOLE, L. MUKAI, Y. KIDOKORO, K. S. KRISHNAN AND M. RAMASWAMI, Analysis of conditional paralytic mutants in Drosophila sarco-endoplasmic reticulum calcium ATPase reveals novel mechanisms for regulating membrane excitability 737–750

SCHADE, MICHAEL A., NICOLE K. REYNOLDS, CLAUDIA M. DOLLINS AND KENNETH G. MILLER, Mutations that rescue the paralysis of *Caenorhabditis elegans ric-8* (synembryn) mutants activate the Gα$_s$ pathway and define a third major branch of the synaptic signaling network 631–649

SCHLENKE, TODD A., AND DAVID J. BEGUN, Linkage disequilibrium and recent selection at three immunity receptor loci in *Drosophila simulans* 2013–2022

SCHMID, KARL J., SEBASTIAN RAMOS-ONSINS, HENRIETTE RINGYS-BECKSTEIN, BERND WEISSHAAR AND THOMAS MITCHELL-OLDS, A multilocus sequence survey in *Arabidopsis thaliana* reveals a genome-wide departure from a neutral model of DNA sequence polymorphism 1601–1615

SCHULZE, SANDRA R., DONALD A. R. SINCLAIR, KATHLEEN A. FITZPATRICK AND BARRY M. HONDA, A genetic and molecular characterization of two proximal heterochromatic genes on chromosome 3 of *Drosophila melanogaster* 2165–2177

SELLEM, CAROLE H., CLAIRE LEMAIRE, SÉVERINE LORIN, GENEVIÈVE DUJARDIN AND ANNIE SAINSARD-CHANET, Interaction between the *oxa1* and *rmp1* genes modulates respiratory complex assembly and life span in *Podospora anserina* 1379–1389

SEMON, MANDE, RASMUS NIELSEN, MONTY P. JONES AND SUSAN R. MCCOUCH, The population structure of African cultivated rice *Oryza glaberrima* (Steud.): Evidence for elevated levels of linkage disequilibrium caused by admixture with *O. sativa* and ecological adaptation 1639–1647

SHANOWER, GREGORY A., MARTIN MULLER, JASON L. BLANTON, VIKTOR HONTI, HENRIK GYURKOVICS AND PAUL SCHEDL, Characterization of the *grappa* gene, the Drosophila histone H3 lysine 79 methyltransferase 173–184

SHERIZEN, DALIA, JANET K. JANG, RAJAL BHAGAT, NAOHIRO KATO AND KIM S. MCKIM, Meiotic recombination in Drosophila females depends on chromosome continuity between genetically defined boundaries 767–781

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SHINOHARA, M., K. SAKAI, A. SHINOHARA AND D. K. BISHOP, Crossover interference in *Saccharomyces cerevisiae* requires a *TID1/RDH54*- and *DMC1*-dependent pathway 2389–2390

SHIRRA, MARGARET K., SARAH E. ROGERS, DIANE E. ALEXANDER AND KAREN M. ARNDT, The Snf1 protein kinase and Sit4 protein phosphatase have opposing functions in regulating TATA-binding protein association with the *Saccharomyces cerevisiae INO1* promoter 1957–1972

SHOR, ERIKA, JUSTIN WEINSTEIN AND RODNEY ROTHSTEIN, A genetic screen for *top3* suppressors in *Saccharomyces cerevisiae* identifies *SHU1*, *SHU2*, *PSY3* and *CSM2*: Four genes involved in error-free DNA repair 1275–1289

SILLANPÄÄ, MIKKO J., AND MADHUCHHANDA BHATTACHARJEE, Bayesian association-based fine mapping in small chromosomal segments 427–439

SINGER, JONATHAN B., ANNIE E. HILL, JOSEPH H. NADEAU AND ERIC S. LANDER, Mapping quantitative trait loci for anxiety in chromosome substitution strains of mice 855–862

SINGH, NADIA D., PETER F. ARNDT AND DMITRI A. PETROV, Genomic heterogeneity of background substitutional patterns in *Drosophila melanogaster* 709–722

SJÖDIN, P., I. KAJ, S. KRONE, M. LASCOUX AND M. NORDBORG, On the meaning and existence of an effective population size 1061–1070

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SPIERING, MARTIN J., CHRISTINA D. MOON, HEATHER H. WILKINSON AND CHRISTOPHER L. SCHARDL, Gene clusters for insecticidal loline alkaloids in the grass-endophytic fungus *Neotyphodium uncinatum* 1403–1414

SPIESS, ELIOT B., Remembrance of Ching Chun Li, 1912–2003 9–11

STEINER, WALTER W., AND GERALD R. SMITH, Optimizing the nucleotide sequence of a meiotic recombination hotspot in *Schizosaccharomyces pombe* 1973–1983

STEWART, MARY K., NATHANIEL L. CLARK, GENNIFER MERRIHEW, EVAN M. GALLOWAY AND JAMES H. THOMAS, High genetic diversity in the chemoreceptor superfamily of *Caenorhabditis elegans* 1985–1996

STOCK, DAVID W., The Dlx gene complement of the leopard shark, *Triakis semifasciata*, resembles that of mammals: Implications for genomic and morphological evolution of jawed vertebrates 807–817

STRECKER, TRACY E., THOMAS J. SPADY, BEVERLY S. SCHAFFER, KAREN A. GOULD, AMY E. KAUFMAN, FANGCHEN SHEN, MAC T. MCLAUGHLIN, KAREN L. PENNINGTON, JANE L. MEZA AND JAMES D. SHULL, Genetic bases of estrogen-induced pituitary tumorigenesis: Identification of genetic loci determining estrogen-induced pituitary growth in reciprocal crosses between the ACI and Copenhagen rat strains 2189–2197

STUMP, ARAM D., JENNIFER A. SHOENER, CARLO COSTANTINI, N'FALE SAGNON AND NORA J. BESANSKY, Sex-linked differentiation between incipient species of *Anopheles gambiae* 1509–1519

SWIGONOVÁ, ZUZANA, JEFFREY L. BENNETZEN AND JOACHIM MESSING, Structure and evolution of the *r/b* chromosomal regions in rice, maize and sorghum 891–906

SYMONDS, V. VAUGHAN, A. VERONICA GODOY, TERESA ALCONADA, JAVIER F. BOTTO, THOMAS E. JUENGER, JORGE J. CASAL AND ALAN M. LLOYD, Mapping quantitative trait loci in multiple populations of *Arabidopsis thaliana* identifies natural allelic variation for trichome density 1649–1658

TEMPLETON, ALAN R., TAYLOR MAXWELL, DAVID POSADA, JARI H. STENGÅRD, ERIC BOERWINKLE AND CHARLES F. SING, Tree scanning: A method for using haplotype trees in phenotype/genotype association studies 441–453

THUILLET, A.-C., T. BATAILLON, S. POIRIER, S. SANTONI AND J. L. DAVID, Estimation of long-term effective population sizes through the history of durum wheat using microsatellite data 1589–1599

TIAN, LU, M. PAULUS FONG, JIYUAN J. WANG, NING E. WEI, HONGMEI JIANG, R. W. DOERGE AND Z. JEFFREY CHEN, Reversible histone acetylation and deacetylation mediate genome-wide, promoter-dependent and locus-specific changes in gene expression during plant development 337–345

TRAVEN, ANA, ANDREW HAMMET, NORA TENIS, CLYDE L. DENIS AND JÖRG HEIERHORST, Ccr4-Not complex mRNA deadenylase activity contributes to DNA damage responses in *Saccharomyces cerevisiae* 65–75

TRIPET, FRÉDÉRIC, GUIMOGO DOLO AND GREGORY C. LANZARO, Multilevel analyses of genetic differentiation in *Anopheles gambiae* s.s. reveal patterns of gene flow important for malaria-fighting mosquito projects 313–324

UDALL, JOSHUA A., PABLO A. QUIJADA AND THOMAS C. OSBORN, Detection of chromosomal rearrangements derived from homeologous recombination in four mapping populations of *Brassica napus* L. 967–979

UNDERKOFFLER, LARA A., LAURA E. MITCHELL, ZAKI S. ABDULALI, JOELLE N. COLLINS AND REBECCA J. OAKEY, Transmission ratio distortion in offspring of mouse heterozygous carriers of a (7.18) Robertsonian translocation 843–848

VAN DYK, DEWALD, ISAK S. PRETORIUS AND FLORIAN F. BAUER, Mss11p is a central element of the regulatory network that controls *FLO11* expression and invasive growth in *Saccharomyces cerevisiae* 91–106

VAN SWINDEREN, BRUNO, AND RALPH J. GREENSPAN, Flexibility in a gene network affecting a simple behavior in *Drosophila melanogaster* 2151–2163

VARGA, LÁSZLÓ, ORSOLYA PINKE, GÉZA MÜLLER, BALÁZS KOVÁCS, EDIT KOROM, GYULA SZABÓ AND MORRIS SOLLER, Mapping a syntenic modifier on mouse chromosome 1 influencing the expressivity of the Compact phenotype in the myostatin mutant (*Mstn*$^{Cmpt\text{-}dl1Abc}$) Compact mouse 489–493

VIENKEN, KAY, MARIO SCHERER AND REINHARD FISCHER, The $Zn(II)_2Cys_6$ putative *Aspergillus nidulans* transcription factor repressor of sexual development inhibits sexual development under low-carbon conditions and in submersed culture 619–630

Vigouroux, Yves, Sharon Mitchell, Yoshihiro Matsuoka, Martha Hamblin, Stephen Kresovich, J. Stephen C. Smith, Jennifer Jaqueth, Oscar S. Smith and John Doebley, An analysis of genetic diversity across the maize genome using microsatellites 1617–1630

Voigt, Christopher A., Denise M. Wolf and Adam P. Arkin, The *Bacillus subtilis sin* operon: An evolvable network motif 1187–1202

Wagner, Helene H., Rolf Holderegger, Silke Werth, Felix Gugerli, Susan E. Hoebee and Christoph Scheidegger, Variogram analysis of the spatial genetic structure of continuous populations using multilocus microsatellite data 1739–1752

Wakeley, John, The limits of theoretical population genetics 1–7

Weber, Kenneth, Nancy Johnson, David Champlin and April Patty, Many *P*-element insertions affect wing shape in *Drosophila melanogaster* 1461–1475

Weisman, Ronit, Irina Roitburg, Tal Nahari and Martin Kupiec, Regulation of leucine uptake by *tor1*$^{+}$ in *Schizosaccharomyces pombe* is sensitive to rapamycin 539–550

Wierzbicki, Andrzej T., and Andrzej Jerzmanowski, Suppression of histone H1 genes in Arabidopsis results in heritable developmental defects and stochastic changes in DNA methylation 997–1008

Willi, Yvonne, Josh Van Buskirk and Markus Fischer, A threefold genetic Allee effect: Population size affects cross-compatibility, inbreeding depression and drift load in the self-incompatible *Ranunculus reptans* 2255–2265

Williams, Daniel C., Thomas Boulin, Anne-Françoise Ruaud, Erik M. Jorgensen and Jean-Louis Bessereau, Characterization of *Mos1*-mediated mutagenesis in *Caenorhabditis elegans*: A method for the rapid identification of mutated genes 1779–1785

Wisser, Randall J., Qi Sun, Scot H. Hulbert, Stephen Kresovich and Rebecca J. Nelson, Identification and characterization of regions of the rice genome associated with broad-spectrum, quantitative disease resistance 2277–2293

Wu, Qiang, Comparative genomics and diversifying selection of the clustered vertebrate protocadherin genes 2179–2188

Wu, Wei, Claude Pujol, Shawn R. Lockhart and David R. Soll, Chromosome loss followed by duplication is the major mechanism of spontaneous mating-type locus homozygosis in *Candida albicans* 1311–1327

Wülbeck, Corinna, Gisela Szabo, Orie T. Shafer, Charlotte Helfrich-Förster and Ralf Stanewsky, The novel Drosophila *tim*^{blind} mutation affects behavioral rhythms but not periodic eclosion 751–766

Xu, Chenwu, Zhikang Li and Shizhong Xu, Joint mapping of quantitative trait loci for multiple binary characters 1045–1059

Yandeau-Nelson, Marna D., Qing Zhou, Hong Yao, Xiaojie Xu, Basil J. Nikolau and Patrick S. Schnable, *MuDR* transposase increases the frequency of meiotic crossovers in the vicinity of a *Mu* insertion in the maize *a1* gene 917–929

Yang, Hsin-Chou, Chia-Ching Pan, Richard C. Y. Lu and Cathy S. J. Fann, New adjustment factors and sample size calculation in a DNA-pooling experiment with preferential amplification 399–410

Yanofsky, Charles, The favorable features of tryptophan synthase for proving Beadle and Tatum's one gene–one enzyme hypothesis 511–516

Zahn, Laura M., Hongzhi Kong, James H. Leebens-Mack, Sangtae Kim, Pamela S. Soltis, Lena L. Landherr, Douglas E. Soltis, Claude W. dePamphilis and Hong Ma, The evolution of the *SEPALLATA* subfamily of MADS-box genes: A preangiosperm origin with multiple duplications throughout angiosperm history 2209–2223

Zee, Robert Y. L., Nancy R. Cook, Rebecca Reynolds, Suzanne Cheng and Paul M. Ridker, Haplotype analysis of the β2 adrenergic receptor gene and risk of myocardial infarction in humans 1583–1587

Zeng, Zhao-Bang, Tao Wang and Wei Zou, Modeling quantitative trait loci and interpretation of models 1711–1725

Zeyl, Clifford, The number of mutations selected during adaptation in a laboratory population of *Saccharomyces cerevisiae* 1825–1831

Zhang, Dongfen, Qiuying Yang, Weidong Bao, Yu Zhang, Bin Han, Yongbiao Xue and Zhu-kuan Cheng, Molecular cytogenetic characterization of the *Antirrhinum majus* genome 325–335

Zhang, Jianzhi, On the evolution of codon volatility 495–501

Zhang, Min, Kristi L. Montooth, Martin T. Wells, Andrew G. Clark and Dabao Zhang, Mapping multiple quantitative trait loci by Bayesian classification 2305–2318

Zhang, Xu-Sheng, and William G. Hill, Predictions of patterns of response to artificial selection in lines derived from natural populations 411–425

Zhang, Yuan-Ming, Yongcai Mao, Chongqing Xie, Howie Smith, Lang Luo and Shizhong Xu, Mapping quantitative trait loci using naturally occurring genetic variance among commercial inbred lines of maize (*Zea mays* L.) 2267–2275

Zhong, Daibin, Aditi Pai and Guiyun Yan, Costly resistance to parasitism: Evidence from simultaneous quantitative trait loci mapping for resistance and fitness in *Tribolium castaneum* 2127–2135

Zöllner, Sebastian, and Jonathan K. Pritchard, Coalescent-based association mapping and fine mapping of complex trait loci 1071–1092